

One Quadrant Spatial Transform Domain



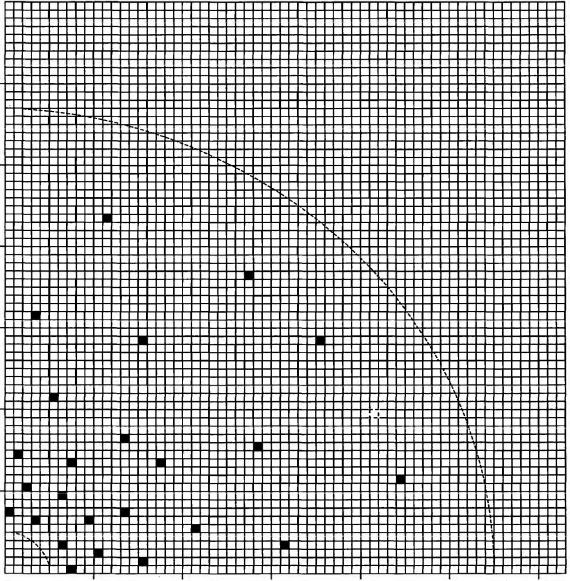
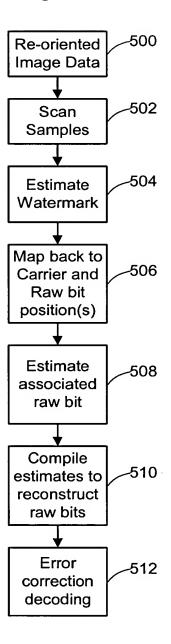


Fig. 4 400 Image Data **4**02 Transform Image Data 404 Perform Correlation 406 Orientation **Parameters** 408 Re-orient image

Fig. 5



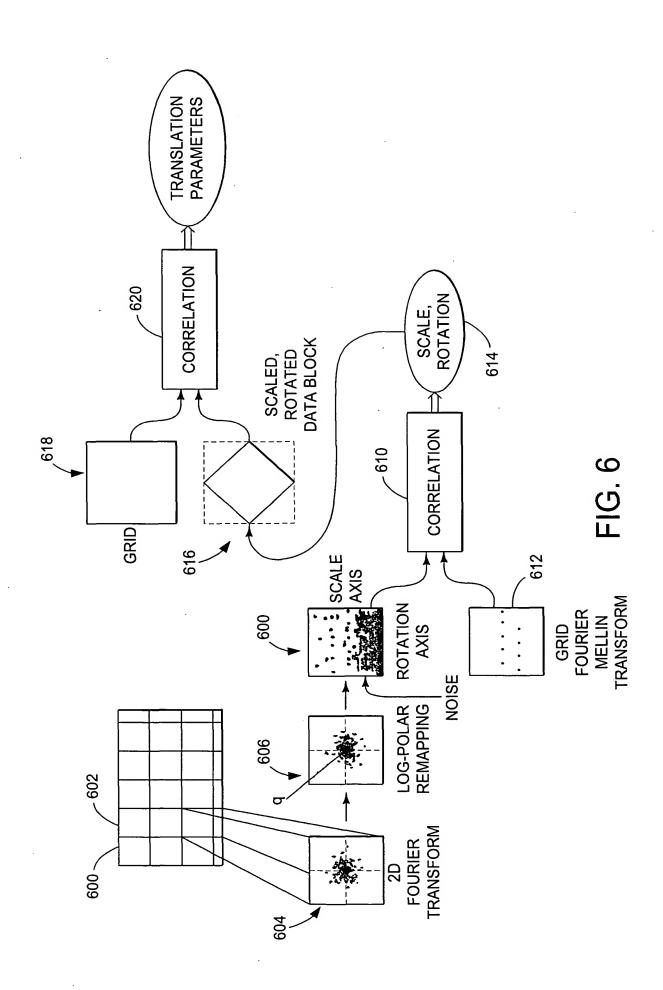
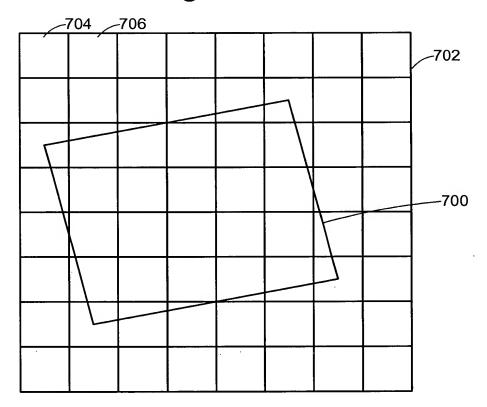
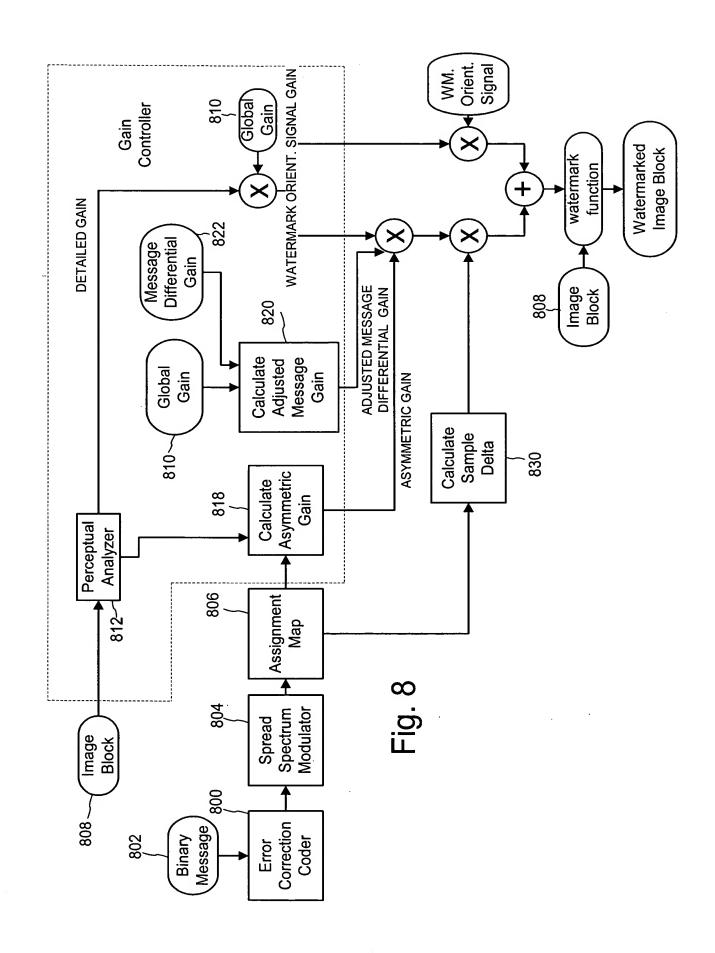
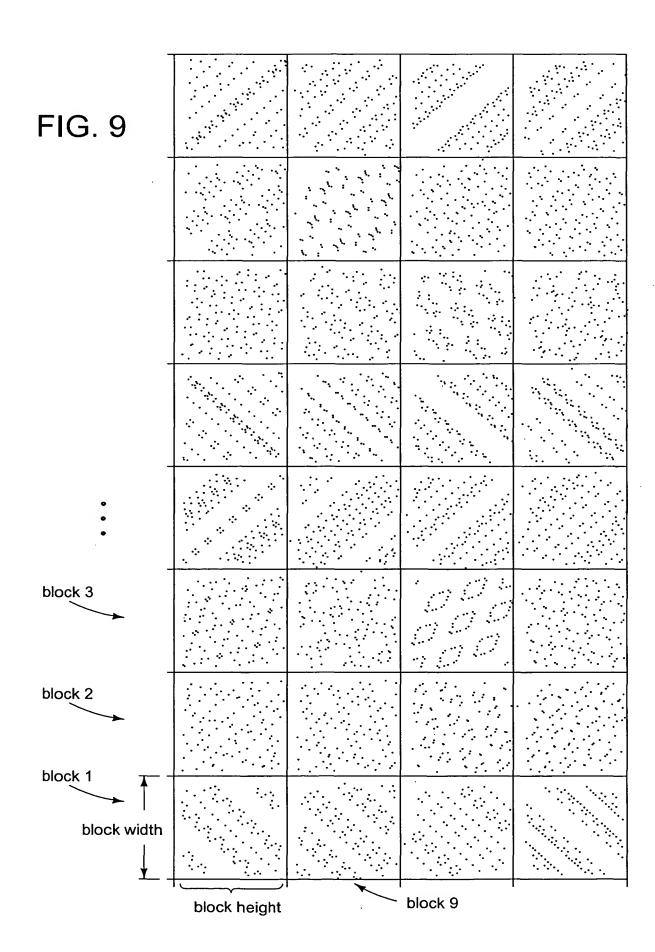


Fig. 7







## MAGNITUDE OF WATERMARK ORIENTATION SIGNAL IN FREQUENCY DOMAIN

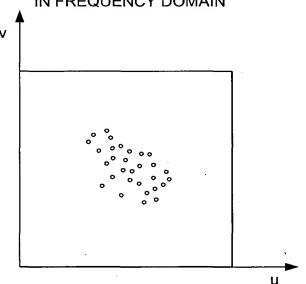


FIG. 10

## REAL VALUE OF WATERMARK ORIENTATION SIGNAL IN SPATIAL DOMAIN

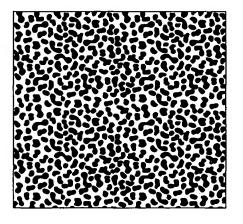
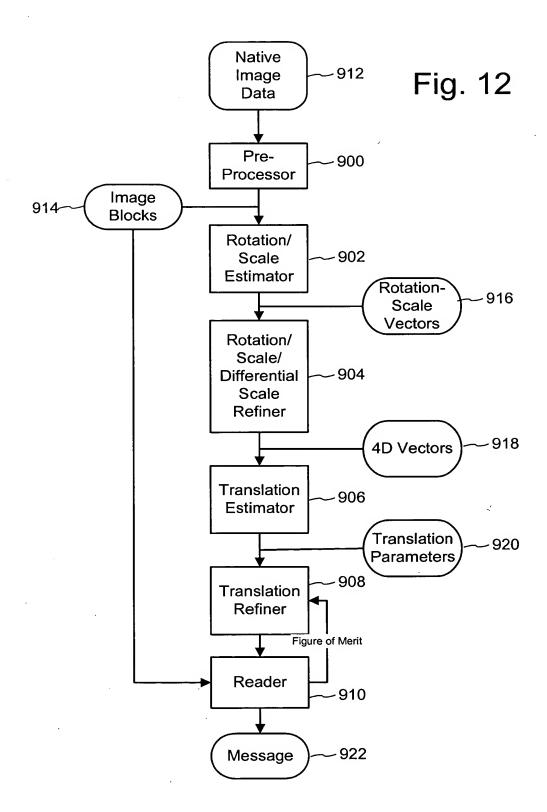


FIG. 11



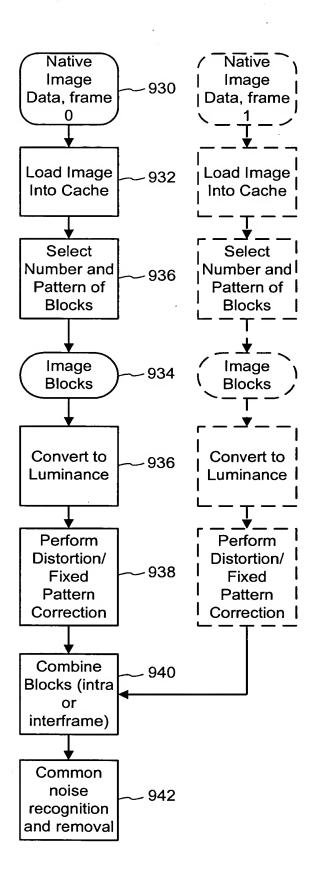
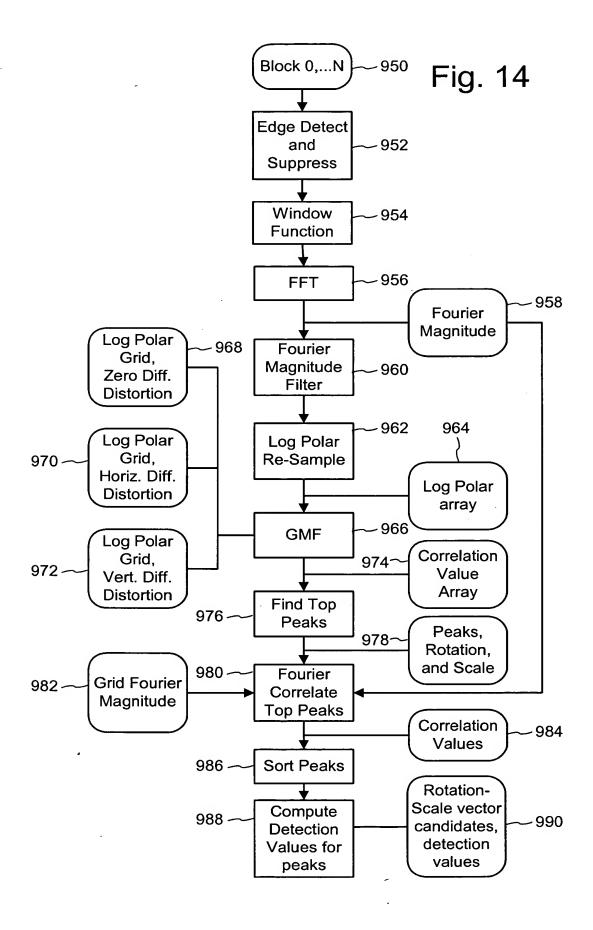
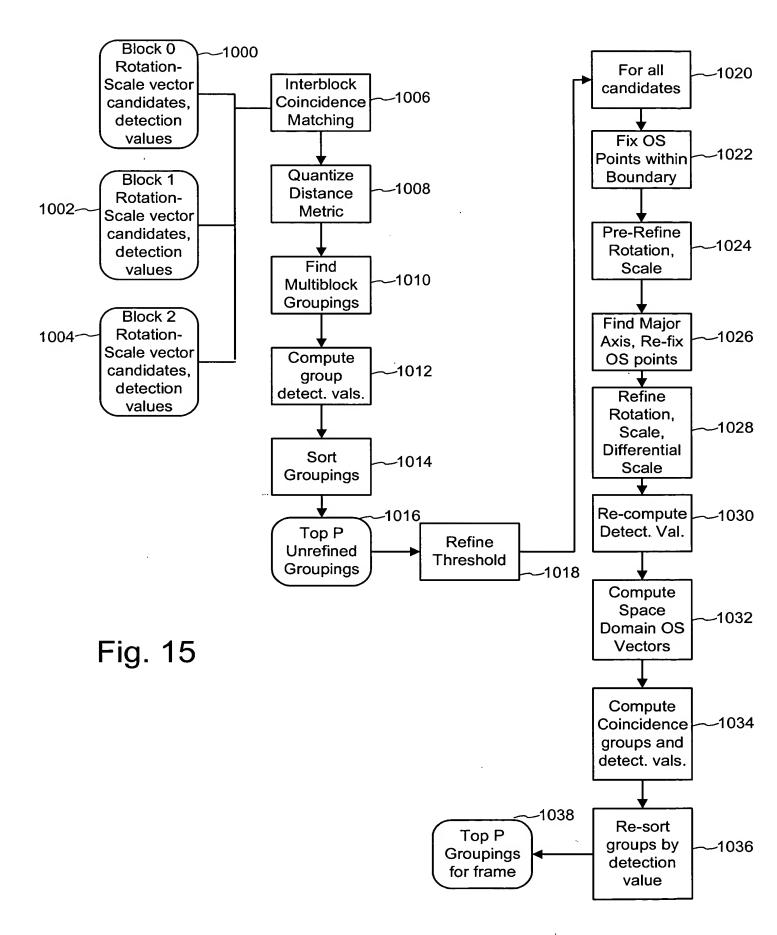
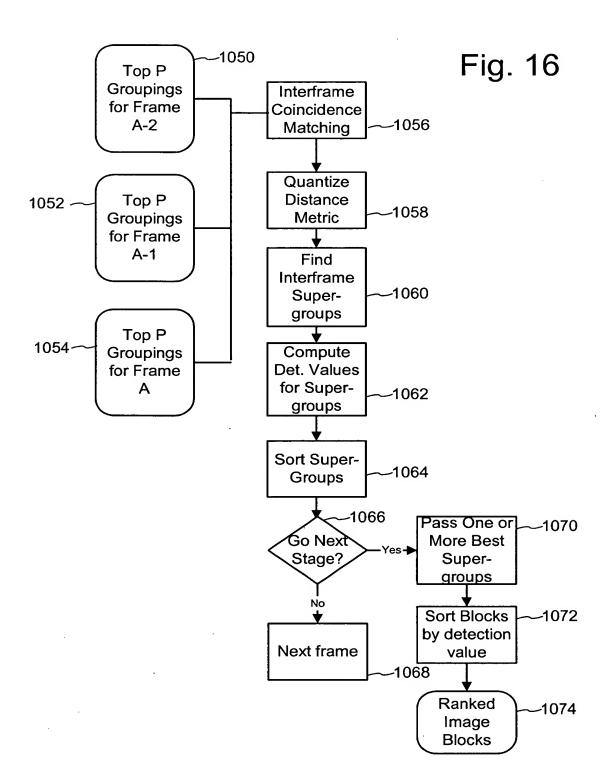
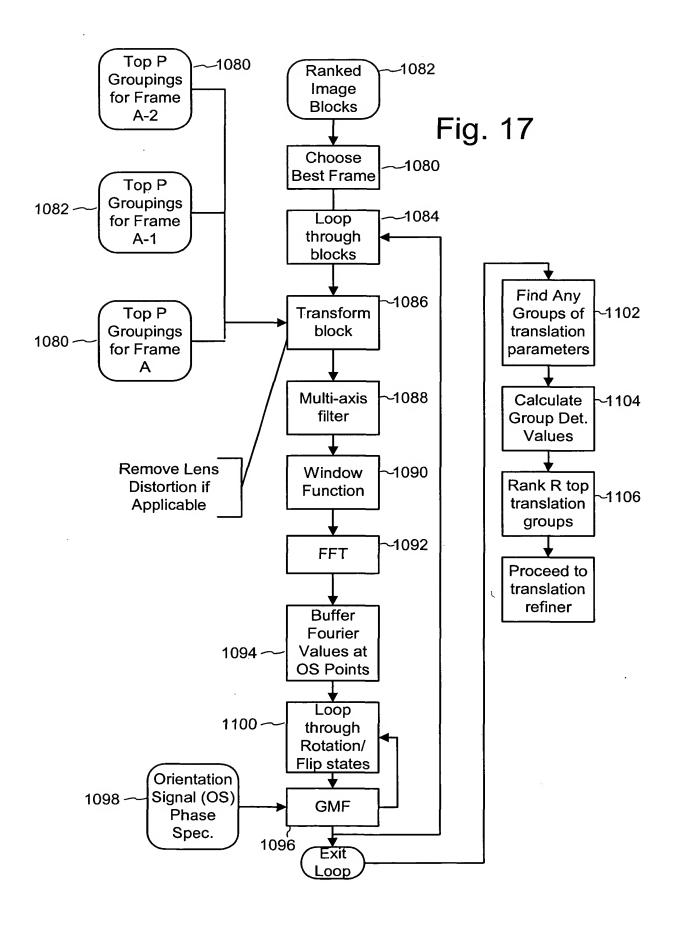


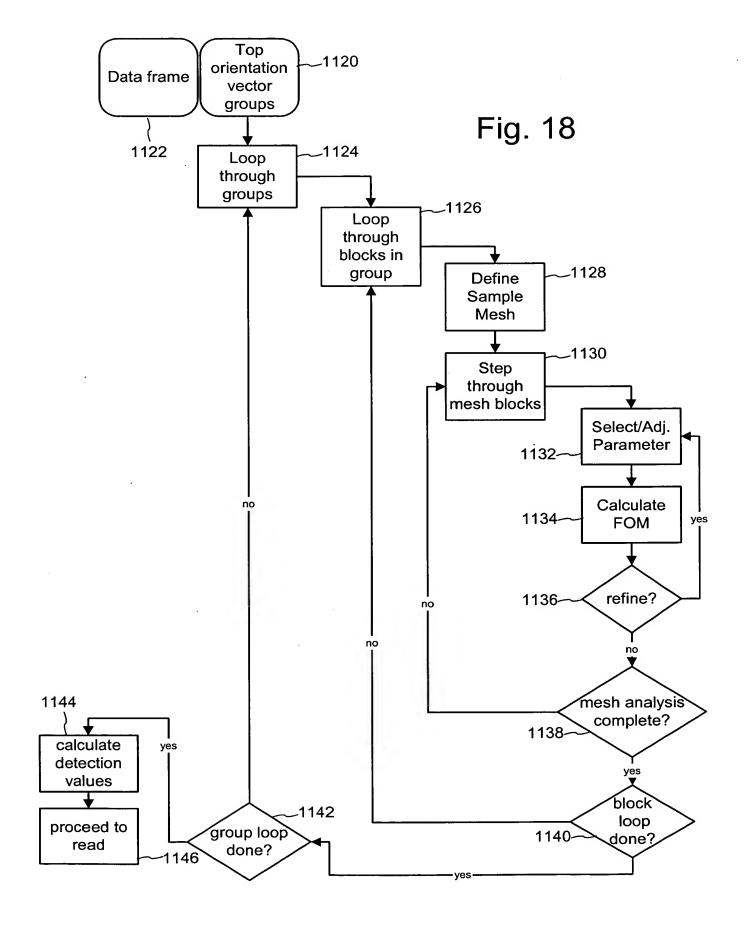
Fig. 13











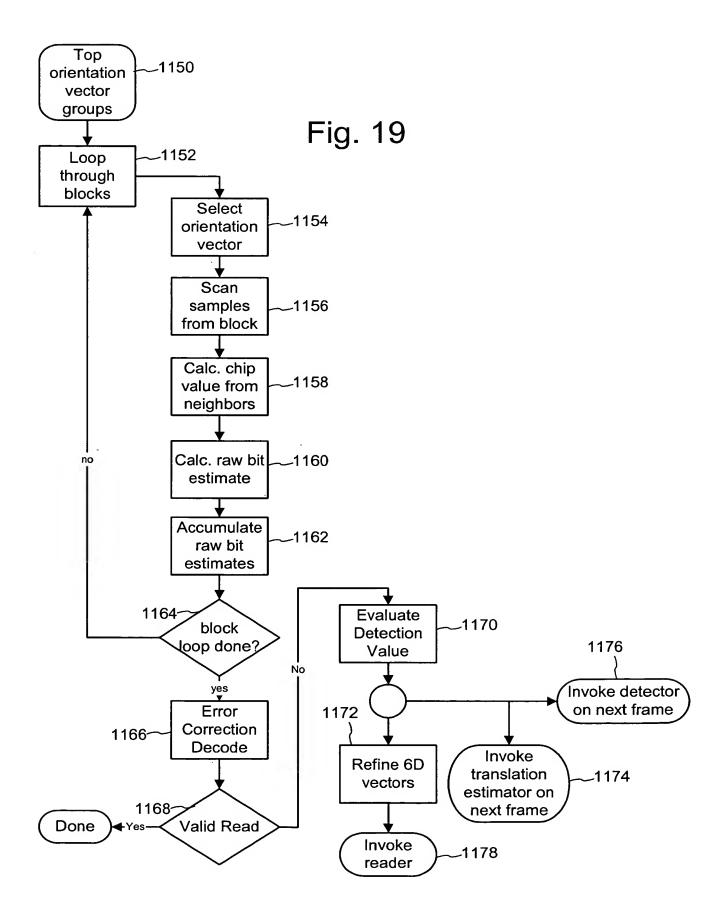
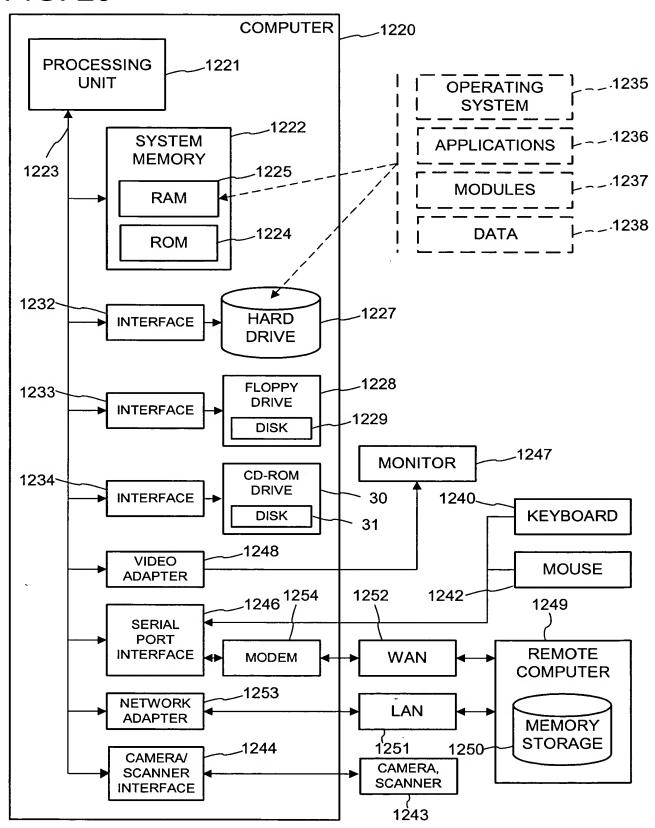


FIG. 20



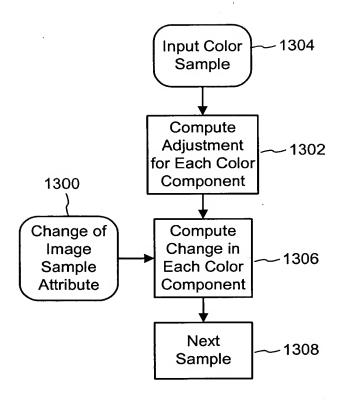


Fig. 21

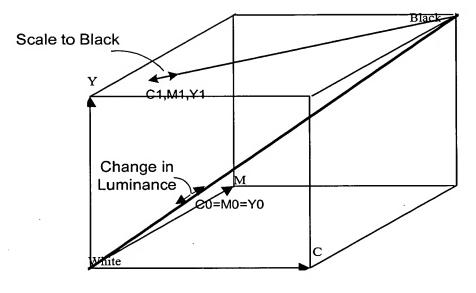


Fig. 22

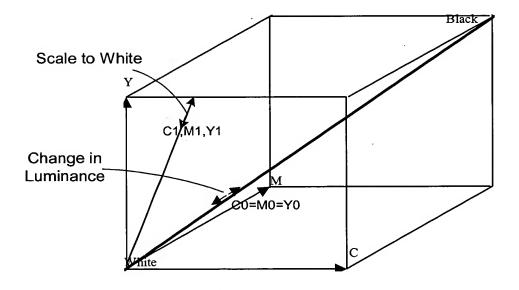


Fig. 23

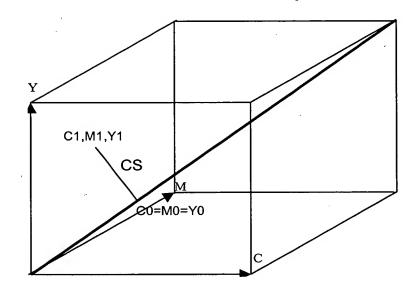


Fig. 24

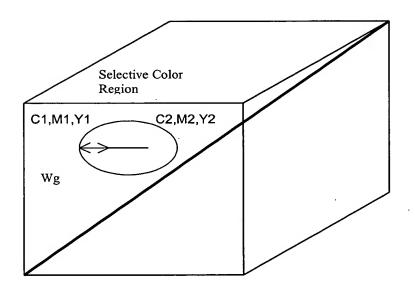


Fig. 25